

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: "Harvey D. D. Hetland" <HDHETLAND@paccd.cc.ca.us>
Subject: [9798] (TMPS) Re: SD etc. DXpedition Addendum
Message-ID: <3DCF1A539AB@manage.paccd.cc.ca.us>

Brian, W5VB0, commented:

> Sorry for the bandwidth, but wanted to let everyone know that in addition to
> the 40, 20, 15 and 10M bands, as outlined in my last message, I will be
> operating on 30M
>

Brian was on 10.106 MHz around 1800 to 1900Z June 12th UTC. I worked him as he entered Flagstaff, but lost him in Flagstaff. I spoke with him again briefly as he left Flagstaff after having stopped for lunch. Unfortunately I already have all the states he will be driving through, but others may wish to track him.

73, Harvey, N6MM

TMPS 96: QSOs=106, WAS=35, DXCC=020

Sorry, I do not have a current list of the states here at work.

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: windish@ix.netcom.com (Walter G. Windish)
Subject: [9762] 10 & 6 Meters open!
Message-ID: <199606121408.HAA23802@dfw-ix11.ix.netcom.com>

Hi gang,

There were some very nice openings on 10 & 6 last night. Unfortunately, I only caught the tail end and had about 1/2 hour before I had to go out. Didn't hear much on CW so I went to SSB. Between 0007 and 0037 I worked:

KA0WND - gave me a 53 to 55 in Atlanta

KE4BKW - received a 45 in N. Carolina

N400DA - gave me a "contest style" 59, but heard me in a pile up.

I was using 5W (I measure SSB wattage by adjusting for 5W on CW and using the same power level for SSB), into a G5RV, which is not the best 10 meter antenna around.

I only have a ground plane for 6, so I didn't bother with that band. The local DX PacketCluster was showing plenty of Europe on 6 & 10

earlier in the evening. I hope we get the same today - I have some time!

I checked my logs for 10 Meters back in the late 80s through 91 - I forgot how many countries I worked QRP SSB on 10. To hear activity on this band again was a real teaser. Like Pavlov's canine friend, I'm drooling all over the place! Later,

Walt KB2JE

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: AlexQRP@aol.com
Subject: [9738] 20 meter ssb contact
Message-ID: <960612003025_412421450@emout14.mail.aol.com>

Well I'm excited about this one. At 0357Z this evening I worked VY1JA in the Yukon Territory running the old 735 at 5 watts out to my 130ft wire, he was 59 here in Dallas ,gave me a 5x5 for my first SSB contact to VY1 !!!

Nice thing about Jay was that he stood by for QRP guys after working a ton of QRO stations. Look for him at 14247.0, he's using a 4 element quad so he is nice and loud.

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: ae4ic@nr.infi.net (BOB KELLOGG)
Subject: [9791] 49-er Contest
Message-ID: <199606121817.0AA10282@mh004.infi.net>

Hi Gang,

With the suggestions made by Bob Hightower about QTTF, I think it's time to mention another possibility for the fall.

A group of us at Dayton discussed having a 49-er contest. Doug Hendricks said that over 900 (!!!) of the 49-er boards have been shipped.

Plans are not complete, but I'll mention some of the things we discussed.

(1) The contest would be held over a short period of time, but not a weekend. For example, over a 5 week period, one day a week, different night each week. (Monday the first week, Tuesday the second, etc) This would give everyone a chance to work the contest between other commitments.

(2) It would be a 49-er contest, but all rigs are welcome. Points for 49-er to 49-er, less for 49-er to XXX or XXX to 49-er, and less for XXX to XXX.

- (3) There could be prizes donated from various suppliers, clubs, etc.
- (4) Probably a good time would be around October when 40M noise is improved.

Please let me know if you are interested in such a contest. It looks like I'll be involved in putting it together.

CUL,
Bob Kellogg, AE4IC
Prolably, but not nececelery. - Benny Hill

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: rflight@VNET.IBM.COM
Subject: [9795] A coincidence?
Message-ID: <199606121847.0AA110595@nss2.CC.Lehigh.EDU>

This has to be the most fireproof list on the Internet. Is this coincidence, or is it that we're so dern busy having' fun (now there's a mode rapidly approaching extinction) we can't find time to be nasty? Sometimes technical; sometimes philosophical; always fun.

The list speaks for itself! Hmmmmm... Which means I don't really need to say anything. But I won't let that stop me!

CW, QRP, Homebrewing, inventing, improving on inventions, and good old fashioned comradaree are alive and well and living on the Internet. In linguistic terms, CW will survive as the foundation of complex communications technologies, much like the alphabet survives as the foundation for classic works of prose and pottery :-)

Through generations; the alphabet is revered for it's simple grace and beauty... as calligraphic works of art in our not too distant past, to acronyms worshiped by organizations while being condemned by those who view their use as arrogant, cryptic, and meaningless "buzz words". It is nonetheless a return to the most basic components of our written media.

Deep within ourselves, we have a burning desire to return to our roots. Some of us love this stuff... Others will deplore it... But it will survive.

If there's a point to this thread, it's that when we return to our most basic forms of communication; there is a passionate division. They differing factions go their separate ways, and never the twain shall meet.

Ya gotta love this list to stay with it... If you're lovin' it; there's

little reason to throw flames. The flame-throwers get violently ill (Picture Joan Rivers here) and scoot. I do hope they have as much fun!

72/3 de N3G0

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: "rohre" <rohre@arlut.utexas.edu>
Subject: [9797] A great resource, the NA5N book
Message-ID: <n1377534738.5534@msmailgw1.arlut.utexas.edu>

The QRP hombrewer's book by Paul Harden was a delight to find at Ham Com. But it is an ideal educational text for the new ham, or even those new to electronic components in general.

Thanks to Chuck Adams and Paul for arranging a shipment of them so those of us in TX could enjoy them even if we did not make Dayton.

The cover of the book is the first interesting part. Full color, and a very neat hamshack, but wait---turn to the back cover--you see the real state of QRP building! ALSO in full color! Nice photos!

The book is spiral bound in metal thus it lies flat on the bench, a good idea for a construction reference. But more than that, it is a good education in the basics of various components, popular chips and transistors, reviews of various kit rigs, and the tutorial in four parts of how a transceiver works, which takes you stage by stage and component by component thru the typical mixer type rig. Really groundbreaking is having not only the typical signal levels, but spectrum photos of what the signals look like at various stages.

The organization of the book is first rate. The inclusion of so much reference material in such a compact size book, but very legible and readable is amazing. This will eclipse what has traditionally been the role of ARRL Radio Amateur's Handbook, and not only in the QRP world, but for anyone trying to study or teach component level design and repair.

The resource pages known as the yellow pages completes the useful and necessary parts of an all around useful amateur radio classic that I am sure this will become. Vendors information on parts and kits, and accessories are included, and the future editions promise even more of an achievement.

Good Work, Paul!

I believe the ordering info has already been posted, so consult the list archives or call 5 Watt Press for more info.

72, Stuart K5KVH
rohre@arlut.utexas.edu

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: DLShips@aol.com
Subject: [9800] ARC 5 (many fond memories)
Message-ID: <960612165836_215988553@emout09.mail.aol.com>

In a message dated 96-06-12 13:47:13 EDT, pharden@aoc.nrao.edu (Paul Harden) writes:

>Any bonus points for an original A/N ARC-5? (WW-II era vacuum tube
>transmitter about the size of a loaf of bread, for you newer fellas).

You woke me up...Thanks. I converted many ARC 5's in the early 50's> In fact I have two of them in my utility shed and was considering pulling them out. 1625's can quickly take you out of the qrp scene. Hi.

Now if you can say the name ANGRC-9 (angry 9) you'll wake this old dawg to the point where he gets up on all fours and stretches..... I can recall sitting in the back of a jeep creeping along the border between Czechoslovakia and W. Germany, banging CQ's with a J-37 signing my newly earned call "de DL4AV" (sometime in 53) hi hi The angry 9 was more of a qrp rig..

72's de W3RDF/qrp

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: Nick Franco <kf2ph@bnl.gov>
Subject: [9796] Beacon on 30M
Message-ID: <31BF1199.1FF4@bnl.gov>

Hi All,

I was on my way back from lunch today and spinning through the band on the SW-30 in the car and heard the only signal out there. It was a beacon at 750 mW - Is he/she one of us? W3RGQ

The RST was 539 here on Long Island from the car with a Hamstick on the bumper.

I'll send out a QSL when I get home.

CUL
Nick

--

Nicholas J. Franco <>> BROOKHAVEN NATIONAL LABORATORY
Sr. Systems Specialist RHIC Project - Building 1005 - Room 201
Tel: (516) 344-5467 Fax: (516) 344-3674 UPTON, N.Y. 11973-5000
Email: kf2ph@bnl.gov <http://www.rhichome.bnl.gov/People/franco>

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: "JOHN F. McCLUN" <JFM001@DENTAL3.AB.UMD.EDU>
Subject: [9756] CCW Library going on line
Message-ID: <199606121309.JAA25689@comm1.ab.umd.edu>

Gang -

Just a short note to let you know that I have finally put up a home page. This page will give links to many interesting QRP area's. Also there is a location to FTP the contents of the CCW library. The history of CCW is in here. From the earliest papers in 1927, Ray Petit's efforts, Chas. Woodson's newsletters, Peter Lumb's newsletter's, Bill de Carle's very informative writings on todays efforts to articles about DDS and FFT of CW signals. Lots of schematic's, papers and reprints - all with the author's and magazines' permission. The original hardcopy library and permission to place online is due to Peter Eaton, thanks to Peter Eaton and his efforts. If you are interested in CCW, QRP methods, keyers mods, rig mods for filtering, etc. there is a lot of that in here. If you have any item you would like to archive in here please email me and we will discuss it. I feel this is an area you can use to store these type items. All schematics are in PCX format and are viewable with PKUNZIP or the WINZIP found in the archive. As of this morning I only have 1/10 of the files moved over but by 9PM today all of the approximately 1.25M of zipped information will be available. Any of you QRPers who want to put those ASCII schematics somewhere, they can be converted to a PCX and put here.

Oh, you might like to see the bottom of the Netscape screen as it scrolls across.

EMAIL to: mcclun@clark.net NOT VIA JFM001@DENTAL3 PLS.

John N3REY
Always QRP!

--IAA24315.834582100/comm1.ab.umd.edu--

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: "JOHN F. McCLUN" <JFM001@DENTAL3.AB.UMD.EDU>
Subject: [9761] CCW URL
Message-ID: <199606121344.JAA26877@comm1.ab.umd.edu>

Gang-

Pat Taber wanted to know if the URL was missing. Yes I wasn't going to give it out until the final transfer and cleanup tonight. But for those who want to peek.....<<http://www.clark.net/pub/mcclun>>

Will post when everything gets copied over.

John N3REY
Always Qrp!

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [9753] Crossmode on HF? It's legal, you know...
Message-ID: <Pine.3.89.9606120742.D18844-01000000@w3eax.umd.edu>

It just occurred to me that so long as one is in a sub-band in which SSB is legal, nobody is stopping anyone from replying to a phone CQ via CW. Perfectly legal, maybe a little weird for some, but perfectly legal. Of course, I don't know how DXCC would view a crossmode QSO.

* Scott Rosenfeld NF3I Burtonsville, MD FM19 QRV 80-10/6/2/440 *
*** VHF @ <25w, HF @ <5w *** Save a cake, pound BRASS instead ***
* 138 cfd with dipoles * QRP-L #147 QRP ARCI #9054 DXCC/WAS/WAC *
* 301-549-1022 h / 301-982-1015 w * 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [9768] CW/noCW
Message-ID: <199606121452.HAA00669@dancris.com>

I have already thrown my two cents in prior to this, but here's another;

I have not worked phone for the past year. Prior to that, I was exclusively phone except for the time I was working to upgrade to Advanced, and when I passed the 13 wpm test, I went back to phone.

Now, with qrp gear, it's all cw. I am enjoying it, getting better at it (like most, I can send like a house afire, copy only so-so), and don't plan to do phone for the foreseeable future. In fact, I haven't even bought an HF SSB rig for 3 years now.

So, don't let it go away. Even if they drop the requirement, keep up the cw..nicer group of people, and no babbling on the bands about all sorts of inconsequential, sometimes trashy, stuff.

BTW, just got my 'new' HW-9 yesterday. Beautiful rig, in immaculate shape. After familiarizing myself with it (inside and out), made first contact with K0MT, Jerry, in Alamosa, CO. This one is going to be my primary rig. Thanks to Bill (KC1GS) for letting it go to a new home.

73,

Bob KI7MN NorCal 1221 ARCI 8918 Qrp-1 271 CQC 274 ARRL (Not in any order of importance!)

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: Allen Skaggs <askaggs@freenet.columbus.oh.us>
Subject: [9810] discontinue qrp-1
Message-ID: <Pine.3.07.9606122115.A7975-91000000@acme>

discontinue sending me qrp-1 info. Thanks.

=====
Allen Skaggs, Grove City, OH.
Packet Radio Address: NV8R@W8CQK.#CMH.OH.USA.

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: "Frank G3YCC" <g3ycc@enterprise.net>
Subject: [9783] Does CW/QRP have a future?
Message-ID: <199606121821.SAA06309@mail.enterprise.net>

Does CW have a future?
Does QRP have a future?
Does SEX have a future?

The answer to all the above:

You play your games and I'll play mine!
(but I wouldn't make any of the three obligatory ... or would I?)

73

Frank G3YCC G QRP 042

QRP Web Page: <http://homepages.enterprise.net/g3ycc/>

Packet: G3YCC@GB7HUL.#15.GBR.EU

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>
Subject: [9811] FS: OHR Sprint 40m, MFJ 9020
Message-ID: <Pine.3.89.9606122122.A20827-01000000@w3eax.umd.edu>

OHR Sprint 40m, excellent condition w/manual, set to receive 7.000 -
7.150 MHz and turned down to a few hundred mW (you reset, please :)
5x5x2" and weighs about a pound.

Asking \$72.

MFJ 9020 20m in excellent condition with box, manual, and optional CW
filter and Curtis keyer. 14.000 - 14.075. Sells new for \$170 plus
options for a total of \$240.

Asking \$160.

* Scott Rosenfeld NF3I Burtonsville, MD FM19 QRV 80-10/6/2/440 *
*** 6m 64 grids worked on 8 watts ** HF 138 cfmd * QRP-L #147 ***
** QRP ARCI #9054 ** DXCC/WAS/WAC ** 100% dipole powered HF/6m **
* 301-549-1022 h / 301-982-1015 w * 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: Bob Hightower <ki7mn@dancris.com>
Subject: [9765] FS: Sprint 30M
Message-ID: <199606121430.HAA00454@dancris.com>

I am selling my OHR Sprint on 30 Meters. If interested, price is \$65.00 shipped within lower 48.

Please e-mail direct.

73,

Bob KI7MN NorCal 1221 ARCI 8918 Qrp-1 271 CQC 274 ARRL (Not in any order of importance!)

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: clifton w sikes <csikes@brightok.net>

Subject: [9750] Ham-Com; 10m qrp, yes

Message-ID: <199606121217.HAA20579@sooner.brightok.net>

Hello to all, I had a great time at ham-com, and got to meet a few of the Nortex group. Thanks to Charles and Doc, for letting me bend your ears at the booth. Thanks to Chuck for bringing the ARCI award applications, and a great presentation in the seminar. The Paul Harden book is about the neatest thing since sliced bread. If you have not seen it, you must. After a couple of weeks of calling, listening, and whineing, I finally have been meeting with some success on 10m cw. A few good contacts up around the novice part of the band. Then tonight, I called cq on 28.060 and got an immediate reply from n4fng/qrp. A very nice qso, with ARCI numbers exchanged, and a good 20 minute rag chew. Don't give up guys. There are a few of us out there. Things can only get better. 73, Clif

Clifton W. Sikes

AB5UA

QRP ARCI # 9058

QRP-L # 478

ARRL

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: Silvio Cerati <scerati@lrcser.lrcser.it>

Subject: [9776] HELP-PIN diodes

Message-ID: <199606121656.RAA04332@lrcser.lrcser.it>

Hi. This is my first trial to ask for info via this way. Do any of you know how to replace some pin diodes that are used as rf switches on an old VHF rig?. The power level is 25w (I beg your pardon for not using a real QRP rig !!) and a reduced one of more or less 1 w. The diodes are used in series of two (in two places for a total of 4 of course): The originals had some jap strange name. After a while I had to replace them (they break for high swr) and I put some european substitute (I am no shure but if I remember right BA149) that's no more produced. Please help me with some new pin diode name that

you know is ON production now and better than all if you know some european substitute.

Silvio Cerati

i1SU

scerati@lrcser.lrcser.it

i1su@iw1bim#cn.ipie.ita.eu

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>

Subject: [9754] Info on VHF reflector

Message-ID: <Pine.3.89.9606120721.E18844-0100000@w3eax.umd.edu>

Sometimes, it's really, really dead. Sometimes, the reflector's just down.

Submissions: vhf@w6yx.stanford.edu

Subscription/removal requests: vhf-request@w6yx.stanford.edu

Human list administrator: vhf-approval@w6yx.stanford.edu

* Scott Rosenfeld NF3I Burtonsville, MD FM19 QRV 80-10/6/2/440 *

*** VHF @ <25w, HF @ <5w *** Save a cake, pound BRASS instead ***

* 138 cfd with dipoles * QRP-L #147 QRP ARCI #9054 DXCC/WAS/WAC *

* 301-549-1022 h / 301-982-1015 w * 145.490- 147.225+ PL 156.7 *

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: KC7FYS@aol.com

Subject: [9764] Just built the 49r

Message-ID: <960612102831_554652187@emout07.mail.aol.com>

Hello.

I just put together the 49er and listened to it before going to work. You know when you just can't resist plugging it in, and you have about 30 "temporary connections", like a clothespin holding the wires into an AC adaptor and you frantically dig through the junkbox and find an old walkman which might've been salvageable, but not anymore because you gotta have that 1/8th inch jack, etc? It's my first project, and I am pleased. I plan to go up on the roof with a 33-foot wire and counterpoise, and give it a try. I am a little worried that I didn't install the variable cap properly. When I tune, I don't hear any difference, i.e. the signals don't vary in pitch at all. I had the same question about the other trimmer. There are three pins, where does the one that's attached to the metallic "body" of the component go? And, what are you guys using to tune the cap with? I was using a guitar pick from the drawer, but what are you more seasoned builders using?

So I will give it a try with my grandpa's (W0X0) homebrew key from the roof of the shack. Don't expect to copy any JA from me, though. Hi.
Jonathan 7J1AWL/KC7FYS

PS. Email me directly, since I don't subscribe to the list.

PPS. Also, did any of you notice a discrepancy in the two identical green chokes--were they differently marked than indicated in the (fb) instructions?

PPPS. Anybody had luck using several (6-8) AA or AAA batteries instead of one of the little rectangular shaped 9vs? What kind of battery life on xmt do y'all get?

If it works, I'll take it up to Nokogiriyama to the giant Buddha statue and try it in the field.

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: 210_100_LIB@NEOMN0.NEOMIN.OHIO.GOV
Subject: [9767] My name and address
Message-ID: <01I5TGR4J8LG8WZVZS@NEOMN0.NEOMIN.OHIO.GOV>

Sorry Charles, I thought I had put my name on the email msgs -- if you want to write me a letter I'd be glad to receive it -- Peter Kozup, 5115 N. Park Ave., Warren, OH 44481. Email via either 210_100_LIB@neomin.ohio.gov or on Compuserve at 76022.2303@compuserve.com -- don't worry about the phone number, I have two teenage girls at home, one of them Sara (KB8RHG) is now interested in boys, so while she won't talk on an HT, she will talk to good looking boys on the phone. The other daughter uses the phone like you guys use email, my point being that you will have to get past them before you can talk to me on the phone ;-)
Drop me a line, Charles, would love to hear from you. 73, Pete Kozup K80UA

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: pelt@vt.edu (Randy Pelt)
Subject: [9803] Need a BIG Favor
Message-ID: <199606122217.SAA00996@sable.cc.vt.edu>

Would some gracious sole be willing to make a photocopy of the December 95 and March 96 QRPp for me??? I will reimburse you for any and all costs to copy these critters and send them to me.

I was a little late renewing in December so I missed the cutoff. The March issue never arrived. I guess the guys down at the post office are still

reading it.

I wasn't sure if this was legal, so I checked with Doug Hendricks and he gave me the OK as long as only single copies are made.

Any takers???

Tnx

Ranson J. Pelt

QST de nz4i (or w4wyt???)

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From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: "Mark S. Adams" <msadams@acsu.buffalo.edu>
Subject: [9805] NEW QSL BURO INFO!
Message-ID: <31BF80B4.1A01@acsu.buffalo.edu>

Hi Gang,

I got an update from the new QSL Buro. Here it is.

=====new release=====

***** U.S.A. QSL BUREAU *****
*****ANNOUNCES NEW LOWER RATES*****

NOW SEND "QSL VIA USBURO" ON THE AIR
A QSL BUREAU FOR DOMESTIC U.S.A. QSL CARDS, ALL 10
DISTRICTS, TERRITORIES AND TRUSTEESHIPS OF THE U.S.A.
A NOT FOR PROFIT ORGANIZATION BY HAMS FOR HAMS

DEAR FELLOW HAM,
"THE FINAL COURTESY OF A QSO IS A QSL", BESIDES BEING
ONE OF THE OLDEST QUOTES IN AMATEUR RADIO, IT IS ALSO
OUR TRADITION!

AS POSTAGE COSTS HAVE CLIMBED TO THE CURRENT 20/32 CENTS FOR CARDS/LETTERS, THE USA QSL BUREAU WAS CREATED BY HAMS FOR HAMS, TO PROVIDE AN INEXPENSIVE ALTERNATIVE TO THE HIGH COST OF POSTAGE! IT ALSO ALLOWS ALL OF US THE ABILITY TO CARRY ON THE TRADITION OF SENDING A QSL CARD FOR EVERY QSO.

TO BE SUCCESSFUL, AND FUNCTION PROPERLY, ALL OF US MUST PARTICIPATE. IT IS OUR SINCERE HOPE AND THE SINCERE HOPE OF THE HUNDREDS OF YOUR FELLOW HAMS THAT ARE CURRENT USERS, THAT YOU WILL COME ONBOARD AND FURTHER HELP ALL OF US MAKE THIS A SUCCESS. THE SAVINGS AND BENEFITS ARE YOUR!!

YOUR PARTICIPATION WILL HELP EVERY U.S. HAM TO ENJOY THE ABILITY TO CARRY ON THE TRADITION OF BEING ABLE TO TO QSL EVERY QSO WITH AN INEXPENSIVE ALTERNATIVE, WHILE SAVING YOU AND EVERYONE OF US BIG BUCKS IN POSTAGE!

THANK YOU

73'S

FROM YOUR FELLOW USERS AND THE USA QSL BUREAU STAFF

SEND ALL YOUR OUTGOING DOMESTIC USA QSL CARDS VIA THE BUREAU

NEW LOW RATE FOR YOUR OUTGOING CARDS;
JUST \$0.05 EACH REGARDLESS OF QUANTITY,
THAT'S JUST \$5.00 PER 100 CARDS, A REAL BARGIN!!

PRESORT ALL CARDS BY DISTRICT AND SUFFIX
(IE: W1A, W1B, W4A, W4F, W4G, W4H, W5A, W5C, ETC.)

PLEASE PUT CALLSIGN OF STATION YOU ARE SENDING CARD TO IN THE ADDRESS SECTION (BACK OF CARD) IN 3/4 INCH LETTERS!!

NO CHARGE FOR CARDS SENT TO YOU BY THE BUREAU - PLEASE KEEP AT LEAST ONE SASE ON FILE - BUREAU WILL NOTIFY STATIONS THAT HAVE CARDS WAITING BUT DO NOT HAVE SASE'S ON FILE - ALL CARDS GET DELIVERED!!!

START ENJOYING THE SAVINGS AND BENEFITS TODAY!!
SEND US UP TO -4- #6-3/4 (3-5/8 X 6-1/2) SASE'S (ONE STAMP EACH)
PLEASE PUT YOUR CALLSIGN IN THE UPPER LEFTHAND CORNER -OR-
YOU MAY SEND US \$5.00, & YOUR CORRECT RETURN ADDRESS,
AND WE SUPPLY 10 SASE'S FOR YOU

SEND YOUR CHECK & OUTGOING QSL CARDS ALONG WITH YOUR SASE'S TO:
USA QSL BUREAU
P.O. BOX 814
BREWER, ME 04412-0814

SHOULD YOU HAVE ANY OTHER QUESTIONS, PLEASE LET US KNOW!!
WE ARE HERE TO SERVE YOUR DOMESTIC QSL CARD NEEDS!!

PLEASE HELP US GET THE WORD OUT, PLEASE PASS ALONG INFORMATION
ON THE "USBUR0" TO YOUR FELLOW HAMS, IT WILL HELP US GET CARDS
MOVED FASTER...WHICH MEANS YOU GET YOURS FASTER!

DON'T DELAY! DO IT TODAY! ENJOY SAVINGS & BENEFITS TOMORROW!
THE QSL CARD - THE FINAL COURTESY OF A QS0!!

MANY THANKS,
73'S
USA QSL BUREAU CREW
>END<

--

72's de Mark, N2VPM, Member of the Buffalo QRP Connection

TMPS 1996 Q's=67 WAS=20 Confirmed=00 (use USA BUR0!) DX=08
AL CA CO CT IN FL KY MA MI MD ME NC NY PA SC SD TN TX WI WY
CT3 EA ES HC LY OZ VE1 6W1 and VY2 V01

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: rflight@VNET.IBM.COM
Subject: [9760] No Know NO?
Message-ID: <199606121336.JAA72718@nss2.CC.Lehigh.EDU>

In the "for what it's worth" department:

Setting the scene;

A "No Code Tech" upgrades and becomes a "Know Code Tech"...

Scenario #1 - Voice Communications on the Local Machine:

The "No Code Tech" need not feel intimidated because of his/her having
not yet mastered Morse code. They can operate freely, without fear that they
will somehow be singled out and isolated. The classes don't sound any
different.

Scenario #2 - CW Communications in appropriate segments of the HF spectrum

Presence here indicates CW proficiency development in progress. He/she
is immediately recognized as one of the "gang", as "Know code Techs".

Conclusion:

"No Code Tech's" and "Know Code Tech's" are indiscernible, as they have been throughout our history. For those who are new to the hobby, Technician class operators in the past were also granted Novice class privileges. This was a "burden" to the VHU/UHF voice only ops, but there was no division of the class.

Considering many Novices and "No" Code Tech's operate at a 3 or 4 WPM speed with good reliability in communication, it seems such a pity to issue a "No" Code license class at all. If a "technically competent" ham wishes to try his/her hand at homebrew, QRP, or whatever, they must do so in a part of the spectrum where parasitics can be debilitating. They are "forbidden" to use CW (the simplest form of communications hardware) on HF (the most forgiving of layout parasitics, and packaging size).

The KnightLites meet in the Novice band for the sole purpose of providing an avenue for increased participation. We recognize not all QRPer's are advanced CW operators, and that CW is the easiest, least costly mode for home brew projects. It seems plausible that a technically gifted "No" code Tech might try their hand at building a receiver as a first project, then soon get interested in trying to build a transmitter. This migration path might entice them to try learning enough CW to exchange call signs (albiet at less than breathtaking speed). Who can predict if that isn't just the hook to catch another CW op that just didn't find it appealing when first introduced to ham radio?

What wisdom exists in a ruling that forbids CW operation on HF by otherwise technically capable operators? Wise or not, this is the edict of International agreement. Whether operator competence in the use of Morse code continues to be a "requirement" is one issue. Whether it be disallowed as a communications mode is another. Cooler heads tend to prevail on such matters, and I remain hopeful that segments of the HF spectrum at regular intervals will be reserved for "Morse Code" only operation.

It was once recommended that the U.S. Patent Office be closed on the grounds that there was little left to be invented. There remains much to be learned about propagation forecasting, spectrum compression, etc. Disallowing the most primitive of communications would surely impede progress. CW is the singular digital communications mode that requires no machine intelligence. The cost and simplicity of such communications systems are significant benefits that lie at the core of new invention in binary communications.

Tech's should be allocated 5 KHz or so somewhere in the Novice band, and be granted Novice class privileges upon demonstrating Novice level proficiency. This should be the objectives of ARRL and other lobbyists on behalf of amateur radio. Promote... don't discourage.

In summary:

Sometimes I just think wierd thoughts!

30/72/73/88 et al

de N3GO

Regards;

Gary E. O'Neil
Advisory Engineer/Scientist
IBM Corp. M/S A62A/205
3039 Cornwallis Road
Research Triangle Park, N.C. 27709-2195
Office: (919)-543-5750 FAX: (919)-543-4516
E-mail: rflight@vnet.ibm.com alias: n3go@amsat.org

//// / * / / / //// //// * //// //// / * //// //// ////

Only I am capable of offering such absurdities, and must assume all credit for my opinions and suggestions. They are mine and mine alone. My employer will graciously disavow any knowledge of my existence and laugh heartily at the mere suggestion of such a preposterous notion.

//// / * / / / //// //// * //// //// / * //// //// ////

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: ROYGREGSON@aol.com
Subject: [9744] NW8020
Message-ID: <960612031222_133218669@emout13.mail.aol.com>

Hi Barry, Dave, and the others. I would be happy to send literature on the NW8020 at no cost if you would pass along your snail mail addresses. In one long sentence the NW8020's are; monobanders for 80, 40, 30, 20, 5 watts, superhet with variable bandwidth, full QSK, speaker audio, sensitive receiver, stable VFO, and lots of fun ! The manual is "test as you go" so you know it is going to work when finished ! It is \$75.00 + \$5.00 S&H. An optional audio filter is available as described by Paul Harden in the May 96 issue of Low Down. The filter is \$20.00 no S&H if ordered with the NW8020, and add \$2.50 S&H if ordered seperatly.
Roy W6EMT

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: "Bill Breare, WA2YMW" <wfb@liii.com>
Subject: [9786] OHR 400
Message-ID: <Pine.SUN.3.91.960612132429.4991A-100000@oak.liii.com>

I'm considering getting the OHR 400 kit through this group purchase and would like some feedback from someone who has assembled it. I've built a few kits in the past, the distant past, but have a friend who has much experience AND is willing to help. Any comments would be most appreciated.

Keep up the good work, guys. I'm just getting back into ham radio after many years absent and I've learned more from this group than anywhere else. It's amazing the talent that is gathered here, and for free yet! 72, 73, etc.

Bill.
WA2YMW
wfb@liii.com

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: John Shuster <jshuster@silverlink.net>
Subject: [9739] OHR Group Purchase Update
Message-ID: <199606120435.VAA05287@oly.olympic.net>

-- [From: John Shuster * EMC.Ver #2.5.02] --

To All:

We have close to 40 kits booked and we're two days into the program.

The new DD-1 Frequency Counter/Digital Dial is the runaway favorite. I have an older S&S display for my OHR 400 and I like being able to know exactly where I'm at, but it flickers back and forth between numbers. Dick says his OHR model DD-1 uses a different counter chip that is more stable in its display.

A few people have also taking advantage of the low price on the OHR 400, a proven performer. One list member is buying his second 400 as a backup that he will use at work during his breaks!

The response to the new OHR 100 has been good as well. 17 and 15 meter versions are popular as people round out their access to the bands. I'm looking forward to the hot receiver, 5 watt output, and innovative circuitry. Dick sent out a posting on the OHR 100 today.

The WM-1 wattmeter continues to be popular with a number of orders so far.

The Explorer II is also a proven performer and at \$89 it's perfect as a first rig or a project for you and your son/daughter.

We're getting in on the gravy.

73,

John

--

John Shuster
TU ES 73 DE KC7CKP

QRP at the foot of the Olympics
in little Port Orchard, WA

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: "Bruce Milne, WB2QAP" <bmilne@vivanet.com>
Subject: [9770] OHR400/Sierra comparisons
Message-ID: <9606121058.aa28636@vivanet.vivanet.com>

Hi,
Wonder if anyone has had any experience using both the OHR400 and Sierra rigs?
Would appreciate any comments you care to make in terms of receiver sensitivity, etc.

Tnx es hope to hear from some of you. 72 de Bruce, WB2QAP>>

72 de Bruce, WB2QAP
Internet: bmilne@vivanet.com

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: "Peter C. Wotherspoon" <Peter.C.Wotherspoon@hydro.on.ca>
Subject: [9772] Parts Query
Message-ID: <Pine.SUN.3.91.960612110701.7696B-1000000@strong.Hydro.ON.CA>

Hallooo all.

Im looking at the guts to a broadband LAN repeater/bridge ,(not sure).

Its broke.

There is a part in it that looks like a large oscillator from a PC.

Its labeled "MCL SB1"

What is it?

Also there are things that look like fat, (about twice as big) old style metal transistors, with about 4 leads. "SYTEC" printed on top>

Any ideas here?

Thanks fer the info

Peter

VE3GYY

Whitby ON Ca.

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996
From: Jeffrey Hetherington <jhetheri@freenet.npiec.on.ca>
Subject: [9813] Pixie II on other bands
Message-ID: <Pine.SGI.3.91.960612233130.12011A-1000000@freenet.npiec.on.ca>

Has anybody on the list put the Pixie II on bands other than 80 and 40.
I know that L2 changes depending on the band, using the T-50-2 core I
have the following

Band Turns

~~~~ ~~~~~  
80 20 of #26  
40 14 of #26

How would I calculate the inductance required for other bands, say 30, 20  
etc.

73/72

Jeff

=====

L. Jeffrey Hetherington - VA3JFF - Niagara Falls, Ontario, Canada  
Canadian QRP Award - <http://www.geocities.com/Colosseum/2572/QRP.html>  
VA3JFF TMS 1996 Qs=018 States=15 Confirmed=05 DX=01  
CO CA NY IN SD WI TN GA IL TX DC OH NC SC LA (OZ7)

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: Scott Rosenfeld NF3I <ham@w3eax.umd.edu>  
Subject: [9749] QRP on 6m w/dipole from MD FM19, what a night!  
Message-ID: <Pine.3.89.9606120625.B18727-0100000@w3eax.umd.edu>

OK, OK, so my Ten-Tec xverter puts out 8 watts CW and SSB. Does the 5 watt rule hold on VHF? I think someone once said anything under 25 watts was QRP on 6 and above.

Don't you think if I could put up a beam I would? :) Maybe a sloper pointing west, as I don't think I'll be working many folks to the southeast of here (Africa :)

To those of you who have never tried 6m, or haven't used it for a long time, it's time to try again. Apparently, it's been open to EU for the last 10 days from the right coast of the US, and at night it's been open maybe 6 of them over much of North America.

QRP takes on a new meaning when you compare

- 1) operation at levels on a band which has an 80% chance of getting your signals out to SOMEwhere (80m, 40m, 30m, 20m)

and

- 2) bands which, 99.9% of the year, are good for about 10 miles (6m) at ANY power level (i.e. 6m)

The influx of IC-706s (yes, you hear a LOT of them, and I KNOW listmembers own them) and the Ten-Tec 1208 transverters and Alinco DX-70s has put tons of people on 6. There are lots of active beacons, and when the band opens up, it has been REALLY opening up. Six is usually plagued with QSB, but last night, signals were strong and solid and sustained. The skip zone started long (1000 miles at 2300z) but by 0330z it was down to about 550 miles!

People on the VHF reflector report seeing 2m E-skip for the second time in a week!

How good was it? I had a CW ragchew with someone in Indiana and someone else in Kentucky - 20 minutes each, almost no fading whatsoever. People who

have worked 6 before: you know how unusual this is.

My ONLY problem with all of this is that I don't particularly like screaming into the mic, greatly preferring CW. Many ops will work crossmode to accommodate you as well (that apparent 18 db gain for Morse over SSB is definitely apparent when you're only running 8 watts and you're the only CW station in the pileup).

However, with the no-code license, a good number of the operators don't know code at all. Such is life, I guess, but if you listen for Adv. and Extra class calls, you're pretty much OK to return fire via CW (NN9K was one of the guys I wkd at 50.170, right in the middle of the phone band - he switched to CW too! :)

\*\*\*\*\*  
P.S. Your 20m rig can be turned into a 6m rig for \$100 through the purchase of Ten-Tec's 1208 transverter, which I've been giving a REALLY good workout without complaints of any kind, either from the unit or from other people. 99.9% of the time, the unit is useless. The other 0.1% of the time, it the FUNNEST piece of gear in your shack, no holds barred.  
\*\*\*\*\*

\* Scott Rosenfeld NF3I Burtonsville, MD FM19 QRV 80-10/6/2/440 \*  
\*\*\* VHF @ <25w, HF @ <5w \*\*\* Save a cake, pound BRASS instead \*\*\*  
\* 138 cfd with dipoles \* QRP-L #147 QRP ARCI #9054 DXCC/WAS/WAC \*  
\* 301-549-1022 h / 301-982-1015 w \* 145.490- 147.225+ PL 156.7 \*

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: "Lau, Zack, KH6CP" <zlau@arrl.org>  
Subject: [9784] QRP on VHF  
Message-ID: <m0uTtbw-000f6XC@mgate.arrl.org>

The ARRL uses 10 watts PEP as the limit for VHF contests.  
This applies to SSB/CW/FM/packet/ATV or anything else.

However, for FD, it is 5 watts PEP--including SSB/VHF.  
Not sure why some people think you get to use 10 watts PEP--hardly anyone thinks the 150 watt limit means 300 watts PEP.

CQ magazine's VHF contest does use 25 watts as their "QRP" limit, but hardly anyone thinks that is really QRP, including the 1st and 2nd place winners in the last published results.

NF3I wrote:

>OK, OK, so my Ten-Tec xverter puts out 8 watts CW and SSB. Does the 5  
>watt rule hold on VHF? I think someone once said anything under 25 watts  
>was QRP on 6 and above.

For QRP ARCI Awards, I'd only count the SSB contacts--the CW ones at  
8 watts don't count. But, if someone asks how many bands I have  
VUCC/quarter/

SHF awards on with QRP--I'd say six, even though a number of contacts were  
made with 9 watts on 1296 MHz CW. You could turn down the IF drive on CW  
to bring it down to 5 watts--my homebrew 6M rig puts out 4 watts CW/9.5  
watts  
SSB.

Zack KH6CP/1

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: Bob Hightower <ki7mn@dancris.com>

Subject: [9773] QTTF Fall '96

Message-ID: <199606121512.IAA00975@dancris.com>

There have been messages in the recent past about a 'theme' for this fall's  
QTTF. How about an event in which clubs/groups use a single type of rig,  
i.e., one group would use the 40A exclusively, another the HW-9, another one  
of the OHR rigs? Could this work, or would it be too restrictive in that not  
all of the rigs can operate on all of the bands, at least those that are  
open? Comments?

73,

Bob KI7MN NorCal 1221 ARCI 8918 Qrp-1 271 CQC 274 ARRL (Not in any  
order of importance!)

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: JEVERHART@cayman.vf.mmc.com

Subject: [9769] Reference for PIN vs rectifiers

Message-ID: <960612105941.2522362f@carib.vf.mmc.com>

Gang,

The brain is indeed the second thing to go. I remember some discussion several  
months or a year ago about the downside of using rectifier diodes as "poor  
man's" PIN diode switches. There was a reference to a QST or QEX treatment on  
that topic. Can anyone give me the reference info?

The QRP connection? Shucks, a receiver with an NE602 in the front end doesn't need a wide dynamic range PIN diode switch!

72/73,

Joe E., N2CX

work: jeverhart@cayman.vf.mmc.com  
home: n2cx@voicenet.com

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: Brien Pepperdine <pepperb@gov.on.ca>  
Subject: [9812] Regens and learning how and why  
Message-ID: <Pine.OSF.3.90.960612221841.23315A-100000@govonca2.gov.on.ca>

The 'senior' ham club I belong to (started just after WWII ended) last year FD QRP. It will do so again this year. This is in part I suppose to gain some equal footing with the QRP club I belong to that won FD the last two years.

Anyhow, aside from FD, the senior club was very nice to me (no tar, feathers or railroad tie riding) when I spoke to them about qrp, and showed the kits from NorCal, Dave Benson. In fact, it seems to have stirred up a real hornets nest of consideration as the club looks at where it is going when on the cusp of 50 years.

Next fall all the meetings from Sept to Dec (bi-weekly) will be on building and construction. No talking heads... just irons, solder, parts and putting them in place, powering up, debugging and so on. The club Executive pulled this fait accompli out of their meeting, and presented it as a challenge to the code/theory class chairman/organizer/armtwister of teachers, and to me as the loadmouth who builds and tells.

There is a grass roots desire there to GET the people onto something, and try to beat the 2 metre VHF/UHF license barrier. To that end, the project for the fall is basically build a receiver to get W1AW for code practice. We will very strongly invite and recommend and yank those persons in the code/theory class to COME to those 5 Friday nites in the fall, meet their Elmer and everyone will participate in building a recvr that the student WILL be able to use for code practice.



We considered the TenTec regen, and other simple and somewhat inexpensive kits. Still looking and thinking about what is required, and what we think someone still curious about the hobby and learning will be able and willing to purchase. But my reading tonite of Paul Harden's regen article in the March 1996 QRPp leads me to think maybe we can really defeat resistance to the cost of a regen by anyone by using Paul's simple and inexpensive design. W1AW comes in FB anyhow, so why not let them build it, use it for the worth and then muck it about some more and use it for BBC or whatever after they have the ticket and some other ham receiver.

Which is the way of saying, if anyone has done a regen similar to Paul's I would appreciate on behalf of my initiative to build over the summer some circuits we could use in the fall any article references from QST, CQ etc. I am sure Paul's is fine, and I will be getting what else I need for it this week I think (out of LM386 IC now, and need some for some more SLQRPS audio boards for the qrp next week anyhow) and building it up and seeing what I can hear.

(BTW, as an aside - due to dropouts over the weeks due to bad winter wx, this year we are going to do immersion teaching over 2 Saturdays, instead of the Oct-April once a week classes. Big load of a number of hours, but with pre-reading of the study guide, Elmering and so on, we hope we can get even more successful newly licensed, building/tech. aware and CW able hams)

Thanks. I sure hope the initiative does get some keening for cw and the HF bands, as well as get some old and new hands onto some fun with building.

72 de

Brien  
Toronto  
VE3VAW

pepperb@gov.on.ca

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: adams@chuck.dallas.sgi.com (chuck adams)  
Subject: [9793] Solder Temps  
Message-ID: <199606121836.SAA01403@chuck.dallas.sgi.com>

Gang,

I can't believe the number of times in the last week I'm experiencing deja vu or the statistics are catching up.

You know like the RF generator find when looking, etc.  
The find of Dave Ingram's article, .....

This time, just before leaving the house this morning I took a sample length of Kester 63/37 solder to send to Dick at S&S with #66 core (organic) and a section of solder that I just ran across at Tanner's here in Dallas. The new find was from Interflux USA (800) 842-4366 called INTERFLUX IF14 No Clean Core Solder Sn62PbAg2 at 0.030" diameter. I'll let you know what I find out about how this stuff solders in a day or two. It may be pretty good, read the following.

Well I get the June issue from the MI-QRP Club THE FIVE-WATTER (T5W) in the mail on the way to work. On page 8 from George Root, W8DNR, is the following:

>From the 1992 ARRL Handbook (missing from 1996) is

60-40 solder (reg) melts at 371F  
63-37 solder (lmp) melts at 361F  
62-36-2 (eutetic) melts at 354F

The silver/lead/tin Eutetic solder with the 354F melting point is available from Radio Shack as their #64-013. The solder is priced 30% higher than their regular 60-40 solder.

He also mentions this in reference to adhesion between foil and the board for PC boards and how excessive temps cause the foil to come loose from the board.....

Just passing on the info. You just gotta subscribe to every newsletter or wait until it's reposted here..... :- ) ; -)

Thanks George and the MI-QRP group for the info.

dit dit es FYI

--

Chuck Adams (K5FO CP-60) adams@sgi.com  
K5FO Tmps 1996 Qs=024 States=17 Confirmed=07 DX=01 (0.95W)  
AL AZ CA CO FL IL IN MI OK OR SD TN TX UT WA WI WY

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: 210\_100\_LIB@NEOMNO.NEOMIN.OHIO.GOV  
Subject: [9763] Steve Slavsky's "obsolete" mode  
Message-ID: <01I5TG9SC4C88WZVZS@NEOMNO.NEOMIN.OHIO.GOV>

Hi Steve, glad to meet you, even this way (I'd much prefer to chat about ham radio on the ham bands, preferably using the mode you call "obsolete"). I'm sorry, but to state, as you did, that CW is "obsolete" is ridiculous. All you have to do is follow the threads on this list to see that this is not the case. Even the IARU FASC did not say that, and they're the ones trying to get rid of it. What CW is is more difficult to learn -- we all, at least most of us, have been able to talk with our mouths since we were infants -- CW is more difficult for obvious reasons. However, "more difficult" is NOT synonymous with "obsolete", or there would be no America's Cup, no homegrown tomatoes (helluva lot easier to just buy the tasteless ones in a shop), no reconditioned model-T Fords (ever try to recondition one of those babies). CW, too, is difficult, more difficult for some than for others -- I'm one of those for whom it has not been easy -- I will probably never get much above 25 wpm copying speed, but so what! But, but, CW is also a VIABLE, VALID, USEFUL, and EFFICIENT mode of communicating. No one can deny that! Even its greatest enemies will not deny that, not if they're being honest. What has happened is that CW is now seen as an OBSTACLE, not a mode. It has become a test to see if one is "good enough" to become a ham. BULLCRAP!! It is a test of PROFICIENCY in a VIABLE, VALID, USEFUL, and EFFICIENT mode of COMMUNICATING. Nothing else. It is a mode that all those who have the means to communicate with hams from less affluent parts of the world should know, otherwise there will be POTENTIALLY one helluva lot of African and Asian and maybe even South American people who will never have the opportunity to work the USA. I believe, and I believe the majority of hams worldwide, believe, that to be considered a full ham we should have the means and ability to use any mode of communicating. I can not do that without a knowledge of Morse.

My reference to my daughter was simply that she will have no one to work in 30 years. I agree with you, Steve, the bands will probably be unrecognizable in 20 years, but only if WE let them become unrecognizable. If we throw the baby out with the bathwater, if we let commercial and other vested interests dictate the way we will operate in the future, then we deserve what we end up with -- but our kids and grandkids will be the worse for it.

OK, I know, I know, the purist QRP fans want me to shut up, and I will. None of you have heard from me on this list for the past year and a half, and before that I had only posted one message. I agree with whoever on the list said we should get on and operate! I only read this thing once a day in the morning, normally (yesterday was different because I was interested in the issue I raised). I raised the matter because I felt the potential to damage QRP was very SIGNIFICANT! I wanted you guys to write to the IARU, NOT to the list. I am truly sorry that the thread has gone on as it has, frankly, I find it kinda like listening to a radio talk show -- everyone has his/her own opinion. All I'm asking is that if you agree that we need to keep the CW requirement, then fire off a letter, a fax, an email-o-gram, an NTS radiogram, I don't give a damn what, just let those who have the power know that YOU ain't happy with

the potential of losing your favorite mode. If you don't agree then you can write to the list till your fingernails break, who knows, maybe in the end you and not me, will be right. I just don't wanna take the chance.

I run a little CW net on 3.682 MHz every Tues and Thurs nite at 2100 Eastern time, I'm also the NCS of the Ohio Sunrise Slow Net every Sat and Sun morning on 3.577 MHz at 0800 Eastern time, and the NCS of the Late Buckeye Net (BNL) every Thurs night at 2200 Eastern time on 3.577 MHz. If you wanna keep the discussion with me going, how about QNIing one of those on a REAL means of conveying a message with your fingers!! I'd REALLY enjoy that! 73/72 to all of you, CU on CW sn, I hpe, QRP. Pete K80UA -- QRP ARCI #4075 FISTS #1254 ARRL (but not necessarily proud of it right now!) QCWA ORS exVK80U exVK6A0U exVK8PK Packet or EME communications, but my

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: adams@chuck.dallas.sgi.com (chuck adams)  
Subject: [9778] Survey Form [long]  
Message-ID: <199606121619.QAA01111@chuck.dallas.sgi.com>

Gang,

The following is a first pass at a general QRPer related questionnaire. Please, do not fill this out at this time.

Please, do not fill this out at this time.

Please, do not fill this out at this time.

Please, do not fill this out at this time.

Please, do not fill this out at this time.

This is a literacy test, please, do not fill this out at this time. Pretty please.

OK? This is a test, this is not the actual survey.

Read it. Did I ask all the questions that I need to ask?

Do not resend it to me. To do so will cause your email to go to /dev/null (a.k.a. garbage). I know what I sent you.

I have it on file. Just send me what you want added.

Keep it simple. This survey must be analyzed using a computer. I don't want to have to do much time in going through 800 emails when I finally send it out.

Thanks and let me know of any changes. If you like it, then don't send anything. It'll cut down on my S/N ratio. Please do not repost to the group, nor repeat it to the group, or start a thread on the qrp-l group. To do so is to give permission to 1,000+ individuals to send you personal email as to why you should read the instructions. :-)

Results of this survey to be posted to this group. Results

to be sent to all manufacturers of ham equipment and/or kits, i.e. those that make transceivers, receivers, or transmitters and might have interest in kit demands now and in the future.

dit dit es tnx

\*\*\*\*Please, do not fill this out at this time.\*\*\*\*

-----

\*\*\*\*Please, do not fill this out at this time.\*\*\*\*

Yes/No Questions to be answered with a Y or a N at the end of the line with a space after the question mark and uppercase is important. So just type a single Y or N for yes or no respectively.

- Q1. Is your QRP interest more than 50% of your operating time?
- Q2. Would you prefer your next QRP transceiver to be a kit?
- Q3. Is your main station rig a QRP rig?
- Q4. Do you operate mobile QRP?
- Q5. Do you have a QRP rig for camping trips and outtings?
- Q6. Is your QRP rig for Q5 the same as for mobile work?
- Q7. Is your QRP rig for Q5 the same as for your main rig?
- Q8. Do you operate any QRP contests or events?

Numerical Answers Required: place an integer number at the end of the line with at least one space after the question mark. One is enough and more than 5 or 6 spaces is too many. Don't get cute. :-)

- Q9. How many QRP rigs or rigs that are capable of QRP do you own?
- Q10. How many of these rigs are commercial rigs?
- Q11. How many of these rigs are kits?
- Q12. How many kits have you put together in the last 3 years?
- Q13. How many kits have you put together in the last year?
- Q14. What price would appeal to you for your primary QRP rig?
- Q15. How many bands would you require at this price?

On a scale of 1 to 5, where 1 is not very important and 5 is very important or high priority, please rate the following functions, etc. Place the number on the same line at the end with one space between your number and the last character of the last word.

- Q16. Noise Blanker
- Q17. Pass Band Tuning
- Q18. Variable Bandwidth Filter
- Q19. Low Pass Audio
- Q20. Adjustable Mike Gain

- Q21. Variable TX Power Output
- Q22. Power Meter
- Q23. Speech Processor
- Q24. Synthesized Oscillator
- Q25. General Coverage Receiver
- Q26. Digital Display
- Q27. Analog Dial
- Q28. Power Phones Only
- Q29. Power a Speaker
- Q30. Low Current Drain on RX
- Q31. VFO
- Q32. Small Size
- Q33. RIT
- Q34. AGC
- Q35. SSB
- Q36. CW
- Q37. FM
- Q38. RTTY or Digital
- Q39. S-Meter
- Q40. AF GAIN
- Q41. RF Gain
- Q42. QSK
- Q43. Keyer
- Q44. Mono Band Rig
- Q45. Multi Band Rig
- Q46. All Band Rig

For each of the following put a Y if interested in operating on that band with either a single band or multiband kit. N otherwise. Again, a single space minimum to allow computer processing.

- Q47. 160M
- Q48. 80M
- Q49. 40M
- Q50. 30M
- Q51. 20M
- Q52. 17M
- Q53. 15M
- Q54. 12M
- Q55. 10M
- Q56. 6M
- Q57. >6M

Yes or No questions. Do you own the following equipment?

- Q58. Analog VOM
- Q59. Digital VOM

Q60. QRP Wattmeter  
Q61. Oscilloscope  
Q62. RF Signal Generator  
Q63. Frequency Counter

Yes or No questions. Do you belong to the following clubs  
or organizations?

Q64. ARRL  
Q65. G-QRP  
Q66. NorCal  
Q67. QRP ARCI  
Q68. QRP-L  
Q69. MI-QRP  
Q70. NE-QRP  
Q71. CQC

Yes or No questions. Do you receive the following publications?

Q72. QST  
Q73. CQ Magazine  
Q74. QRP Quaterly  
Q75. QRPp  
Q76. T5W  
Q77. WorldRadio  
Q78. 72  
Q79. 73 Magazine  
Q80. CQC LowDown  
Q81. Hambrew Magazine

Email if you have a club with more than 50 active members.

Did I forget to say? \*\*\*\*Please, do not fill this out at this time.\*\*\*\*  
Of course if you didn't pay attention up to this point then it  
was too late anyway. :-)

Thanks for the bandwidth and I hope this works. It is just a survey  
and applies only to a finite number of the ham community. Subject to  
all the laws of statistical analysis and then some. :-)

--

Chuck Adams (K5FO CP-60) adams@sgi.com  
K5FO TMPS 1996 Qs=024 States=17 Confirmed=07 DX=01 (0.95W)  
AL AZ CA CO FL IL IN MI OK OR SD TN TX UT WA WI WY

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: nu6u@w6trw.ampr.org

Subject: [9746] The Threat to QRP  
Message-ID: <18529@w6trw.ampr.org>

The greatest threat to QRP, comes from within. The way I see it, the Two threats to QRP are:

1. The QRP-L. With all this great discussion about QRP ( eg. The real meaning of QRP, Field Day antennas, and the coming 40 meter rig from Ten Tec ) who has anytime to operate.
2. Kits. With all the different kits to build, and then modify, who has time to operate.

It seems to me, that the best thing we could do to preserve QRPing, is to \*operate\* QRP :-)

Now that I've posted this note, I'd better get my soldering iron ready, that 40 meter T-Kit is going to be out soon, and then I'll be able to do some real QRPing....

max.

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: RAY TOUGAS <RAYT@eftc.com>  
Subject: [9782] They are OUR bands...QRP 1776 (haha)  
Message-ID: <s1bea370.042@eftc.com>

\*\* Reply Requested by 9/18/1996 (Wednesday) \*\*

Greetings All,

Ordinarily I'd let it drop, but the comment that 'we don't own the bands... we're just tennants'. Hmmmmmm, whom do we think DOES "own" the bands: the Government? Last I heard, the U.S.A. is not the U.S.S.R. - yet. So why do we think that the Feral Government owns the bands? They are at BEST administrators. After all,

1. It was AMATEURS who discovered and



implemented the  
principles which created radio to begin  
with, not some political  
aparatchiki from Washington D.C.

2. Amateurs made great strides in the  
technical aspects of radio  
communication UNTIL about the time that we  
were corraled into using only  
specific/government aproved modes.  
Remember the fights over  
RTTY,ASCII,packet, and now spread spectrum?

3. Years ago OUR bands & hobby were  
commandeered by politicians in  
government and sold to those who worked out  
a deal with the  
government to give them exclusive "rights"  
to use OUR radio bands  
for profit (i/e the networks). I love  
profit, but they should  
have worked the deals out with those who  
were one the air at the  
time: hams!

The bands are OURS! The government is made  
up of OUR CIVIL SERVANTS. If they don't  
become more civil and more servile to 'we  
the people'  
then we need to bring pressure to bear on  
them to do so.

-----END OF SERMON (GOOD GRIEF! HAR AHR  
AHR)-----

Just a quick note, as for CW I love it,  
I've done it all my life,  
both in the military and as a backpacking  
ham and will continue to  
do so. Remember folks, it's a hobby. We do  
it because we like it.  
If 'they' drop the CW requirement, I'll  
still send CW; because I  
like it. If 'they' try to tell me to stop,  
I'll probably just  
remember that I'm a free man and that  
they're OUR bands anyway.

(I wonder if Madison, Jefferson &  
Washington were hams.....?)

>Radio-Ray ...\_ . \_

Ps. A friend of mine is a Special Forces  
commander. He laments  
the fact that it is VERY difficult for him  
to train communicators  
in basic morse code at even 14 GPM! Just  
a thought.

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: jwg6@cornell.edu (Joel Govostes)  
Subject: [9748] VHF openings - last night -- sporadic E  
Message-ID: <v02120000ade4625ed413@[132.236.155.142]>

Tuesday night, 9pm EST til almost 10 oclock.  
I was sitting in my car in downtown Ithaca, NY and couldn't find any  
interesting music to listen to locally. I tuned to 96.5 to try for the  
Rochester, NY AOR station which can be heard well off and on. I DID get a  
rock station, full stereo, with a great signal. Thought it was WCMF,  
Rochester. Once the advertising came on I learned it was WHTQ in Orlando,  
FL!

I stayed with the station for almost an hour, then a religious broadcaster  
(regular occupant of the freq. in this area) from PA took over. Shortly  
thereafter, around 10 pm i heard another station wipe it out and the  
advertising was for Six Flags theme park in GA, so possibly a Georgia  
station, tho not as strong as WHTQ and only lasted about 5 minutes.  
Pretty excellent conditions; not bad for a car radio!

I called WHTQ and talked with the jock, Chris, and he was amazed, and had  
just received a call from Massachusetts. Wonder what other folks caught  
on VHF. Any QRP successes on 6 or maybe 2 meters??  
73, Joel N1AEP

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: 210\_100\_LIB@NEOMNO.NEOMIN.OHIO.GOV

Subject: [9775] Write letters??

Message-ID: <01I5TIC30YZ88WWW3C@NEOMNO.NEOMIN.OHIO.GOV>

Charles Cashion (ccashion@sun1336.spd.dsccc.com) asks for a sample letter that could be sent in to the appropriate IARU authorities. I have a petition that is being circulated, and will email a sample letter to be used or converted if you are interested. I will not post to the list as that would be unfair to those who find this thread disturbing. Please drop me an email msg to either 210\_100\_LIB@neomin.ohio.gov or to 76022.2303@compuserve.com and I will get one out to you later today (I am working, believe it or not, and have a couple of thousand school library books to barcode before start of school in late August, so won't get the letter/petition out to you before late afternoon). The petition can be used at your local club meetings, taken to hamfests, or whatever ways you want to use it. The more signatures the better. CUL es 73, Pete Kozup K80UA.

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: Art Searle <asearle@netusa.net>

Subject: [9774] [Fwd: Re: Crossmode on HF? It's legal, you know...]

Message-ID: <31BF09E3.7E23@netusa.net>

This is a multi-part message in MIME format.

-----11FE21B27FA

Content-Type: text/plain; charset=us-ascii

Content-Transfer-Encoding: 7bit

--

72,73, de Art Searle, WU2K, Long Is., NY, ARRL Life Member  
QRP-L #524, QRP ARCI #9123, NorCal pending, DXCC MX & CW HR  
NRA Benefactor Life Member, NMLRA Life Member, AMA Life Member  
NRA Certified Firearms Instructor, Dale Earnhardt Fan Club

-----11FE21B27FA

Content-Type: message/rfc822

Content-Transfer-Encoding: 7bit

Content-Disposition: inline

X-Mozilla-Status: 0001

Message-ID: <31BF07FA.1257@netusa.net>

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: tdrumm@sparc.isl.net (Tony Drumm)

Subject: [9814] Re: 49-er Contest

Message-ID: <199606130402.XAA04992@sparc.isl.net>

>A group of us at Dayton discussed having a 49-er contest. Doug Hendricks  
>said that over 900 (!!!) of the 49-er boards have been shipped.  
>  
>Plans are not complete, but I'll mention some of the things we discussed.  
>

How 'bout extra points for an official Altoids enclosure?

Tony Drumm

Rochester, MN

internet: tdrumm@isl.net

Packet: aa0sm@wd0gnk.#semn.mn.usa.na

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: "Robert J. Gobrick" <rgobrick@nfld.com>

Subject: [9806] Re: a piece of ancient history

Message-ID: <2.2.32.19960611232857.00a9fcb8@public.compuser.nf.ca>

LB,

Wonderful story and just amazing to know that maybe that ham radio stuff of  
yester-year rubbed off on to another Cebik - you. Congrats.

73/72 Bob V01DRB/WA6ERB

PS: One of my biggest thrills, late in my life (ham life that is), was  
monitoring the around-the-world-flight of Rutan and Yeager in their light  
weight Voyager aircraft. I short wave listened the HF channel to ground  
control and Rutan was pretty peeved with the bad weather info he had  
received when he hit thunderstorms in Africa. Real exciting stuff and it  
made my day at work the next day seem so inconsequential. I kept thinking  
about how tough it was being in that tiny cockpit and pressing on to meet  
their goal.

Anyway listening to that conversation got me interested in QRP operation  
(well not really but it does end the story with the obligatory QRP twist...)

At 20:33 6/11/96 -0400, you wrote:

>I was asked to write the following for the 10-10 News and thought that it  
>might interest those who have an interest in some of ham radio's  
>historical oddities. So here it is--and both stations were using 1-tube  
>rigs and regenerative receivers.

>

>-73-

>LB, W4RNL

>

>-----

> Imagine yourself on the 22nd of May, 1927, about 0200 Paris time.

|                                                               |
|---------------------------------------------------------------|
| Bob Gobrick - VO1DRB/WA6ERB/VE2DRB - Newfoundland, Canada     |
| QRPer Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |
| Internet: rgobrick@nfld.com                                   |
| bgobrick@nl.net.nf.ca                                         |
| Compuserve: 70466.1405@compuserve.com                         |

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: Art Searle <asearle@netusa.net>

Subject: Re: Crossmode on HF? It's legal, you know...

Scott Rosenfeld NF3I wrote:

>

> It just occurred to me that so long as one is in a sub-band in  
> which SSB is legal, nobody is stopping anyone from replying to a phone CQ  
> via CW. Perfectly legal, maybe a little weird for some, but perfectly  
> legal. Of course, I don't know how DXCC would view a crossmode QSO.

This would qualify for mixed mode and band only. Years ago the DXCC desk would have allowed the contact for CW if one-sided CW QSO, but not anymore. Of course this would be self-policed because you could not tell from the QSL card.

72, de Art WU2K

--

72,73, de Art Searle, WU2K, Long Is., NY, ARRL Life Member  
QRP-L #524, QRP ARCI #9123, NorCal pending, DXCC MX & CW HR  
NRA Benefactor Life Member, NMLRA Life Member, AMA Life Member  
NRA Certified Firearms Instructor, Dale Earnhardt Fan Club

-----11FE21B27FA--

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: Steve.Hideg.1@nd.edu (Steve Hideg)

Subject: [9792] Re: Crossmode on HF? It's legal, you know...

Message-ID: <v0213055aade4b9e57915@[129.74.35.16]>



From: Ron Carmichael <rpc@datatamers.com>  
Subject: [9741] Re: Earnhardt  
Message-ID: <Pine.LNX.3.91.960611221750.9439B-100000@dt1.datatamers.com>

Hi there,

If Jarrett can finish a bit higher in future Winston Cup races he could catch Earnhardt. Jarrett's team is new this year and is successful. With a little luck, nascar luck, who knows.

Wed, 5 Jun 1996, Art Searle wrote:

> Hi Monte,  
>  
> Good to hear from you.  
>  
> Monte Stark wrote:  
> > Well, I see that Dandy Dale has a 115 point lead  
> > over Jarrett. (That bent radius rod didn't hurt  
> > one Dale at all!)  
>  
> As of this past Sunday, Jarrett dropped to 4th 215 points behind  
> Earnhardt. Terry Labonte is in 2nd 136 pts behind and that rotten kid  
> (my wife Ann's pet name for Gordon) is in 3rd.  
>  
>  
> >  
> > Changed my 650 over to .45 ACP last night. Man,  
> > what a bunch of parts to change. But at least  
> > all seems ok. Have the powder throwing 5.3g of  
> > Unique (sp) and will be using a 180 Gr swc.  
>  
> You gotta get separate tool heads.  
>  
> >  
> > Will try to get a few through the gun tonight just  
> > to be sure they function OK. Have a class Sat and  
> > need a min of 250 rds. And my wrist is too sore to  
> > handle heavy loads, so I'm hoping the 180Gr do the  
> > trick for me!  
> >  
> > Gotta get back to work, cul,  
>  
> I find 200 gr SWCs can be loaded fairly light and still  
> be real accurate. You can get em going down to 700 fps  
> and shoot all day.  
>  
> 72, de Art  
>  
> --

> 72,73, de Art Searle, WU2K, Long Is., NY, ARRL Life Member  
> QRP-L #524, QRP ARCI #9123, NorCal pending, DXCC MX & CW HR  
> NRA Benefactor Life Member, NMLRA Life Member, AMA Life Member  
> NRA Certified Firearms Instructor, Dale Earnhardt Fan Club  
>  
>

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: "L. B. Cebik" <cebik@utkux.utcc.utk.edu>  
Subject: [9751] Re: end fed 3/8 wl wire  
Message-ID: <Pine.SOL.3.91.960612080131.6373A-100000@utkux4.utcc.utk.edu>

The inverted L, 3/8 wl long, intrigued me, since I had used one in the days long before modeling gave any hint as to potential performance--and I was quite successful with it in the traffic nets from a GA QTH.

I did some preliminary modeling of a version using a vertical height of 30' and about 70' horizontal. Ground modeling is somewhat uncertain, so I will not try to give any precise figures. However, the antenna should work reasonably well. On 80, the overall pattern is almost circular, high angled (56 deg T0), with a slight bias in the direction where the vertical and horizontal parts meet. The feedpoint impedance should match coax IF you add a series Xc of 200-400 ohms at 3.55 MHz (test Freq)--or feed it with an ATU and ladder line. One side goes to the insulated-from-ground vertical element and the other to a ground rod.

Changing materials makes some difference in the reactance on all the bands modeled. However, the antenna should be matchable on 40, 20, and 15, with a little more difficulty on 30. Changing the length slightly will affect values on the higher bands (30 and up) more than the lower bands, so a bit of length adjustment might bring a tough match into an easier range.

The antenna has strong vertical and horizontal components, and will work with a ground rod rather than a well-developed radial system. (The horizontal component is less dependent on ground quality.) On bands higher than 80 meters, the horizontal component predominates, although some of the patterns show a bias toward the junction end of the horizontal wire.

There is no reason why the antenna cannot work by starting its vertical run right outside the shack window. Although feeding close to ground is classically done, it can be fed a little ways up the vertical wire. However, be sure to install a good ground rod--mostly to keep RF out of the shack.



For those just getting started with antenna modeling, this is an interesting antenna to use to see how the vertical and horizontal components of the field combine for an overall far field pattern--just set your program to show all three at once.

For 80, the T0 angle is about 56 degrees, but climbs a bit on 40, and then comes down nicely on the other bands. My own installation years ago started as a temporary antenna made up of all the 300-ohm twin lead I had, spliced and shorted at the two ends. I use 1/8 nylon cord tied in a tight loop around necks of milk bottles to allow the wire to slip in the wind and still get it up in the air, with the cord tossed over tree branches. I kept it up for 3.5 years before moving because it worked so well. Similar simplistic measures may be apt to field use of this antenna. Just be sure that any parallel feed line you may use is elevated so that the ground junk does not cause any line imbalance and consequent losses.

Happy experimenting.

-73-  
LB, W4RNL

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: Bob Hightower <ki7mn@dancris.com>  
Subject: [9799] Re: FS OHR SPRINT 30  
Message-ID: <199606122058.NAA03153@dancris.com>

The radio has been sold. Thanks.

73,

Bob KI7MN NorCal 1221 ARCI 8918 Qrp-l 271 CQC 274 ARRL (Not in any order of importance!)

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: Brien Pepperdine <pepperb@gov.on.ca>  
Subject: [9802] Re: FS OHR SPRINT 30  
Message-ID: <Pine.OSF.3.90.960612174714.15908B-100000@govonca2.gov.on.ca>

Anyone disappointed by Bob's OHR Spring 30 being sold is welcome to contact me. I had mine for sale locally, but it seems to have fallen thru since no cheque arrived.

Therefore, I have a 30 M OHR Sprint for sale, lets say same cost at 65.00 US as per Bob.

Brien  
Toronto

pepperb@gov.on.ca

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: Hank Kohl <k8dd@tir.com>  
Subject: [9747] Re: Ground rods  
Message-ID: <199606121013.GAA14027@sun.tir.com>

At 08:35 06/11/96 -0500, you wrote:

>This weekend I went o my local hardware emporium looking for ground  
>rods; they offered 8 foot solid copper ground rods for what I thought  
>was a high price. To my surprise, they also offered 8 foot solid  
>something galvanized ground rods for about half price. Are the  
>galvanized rods as good as the copper rods?

>

No....Copper is better - doesn't rust.

>This set me to thinking of ways to save \$\$ (hey - I \_am\_ a ham, and I  
>have to uphold the finest tightwad traditions) -- could I use EMT  
>(electrical metallic tubing)? What about copper tubing? Is this a  
>case of saving a few \$\$ and endangering my whole house?

>

EMT no - I'd say copper tubing is better....Buy 8' of copper pipe. If you can't drive it in the ground (I have lots of clay and it's hard to even drive a copper rod!) hit up the road construction sites and look around for an 8' piece of re-rod (re-enforcing rod) that they put in the roads to keep the concrete together. Get one that's about 1/2" or 3/4" or what ever your copper pipe is. Stick it down in the copper pipe. Drive it in the ground. Cheaper than a "real" copper ground rod. Also, you might want to get out the torch and solder some #12 copper wire to the top of the copper pipe before you pound it in the ground. Along with soldering it, put some kind of a clamp on it for a solid mechanical/electrical connection.

EMT and galvanized stuff will work, but you might want to change or replace it every couple of years. I used 1/4 mile of electric fence wire for radials about 9 years ago. Lots of 66' radials, but they are mostly all rusted off where they come up out of the ground to the ground stake. The worked really great when they were new, but after about 3 years they started to deteriorate, so they are being replaced with bare copper, stapled into the grass.

73 Hank K8DD

\*/ Hank Kohl K8DD k8dd@tir.com  
\*/ MI-QRP QRP-ARCI G-QRP NorCal  
\*/ ARRL/LM QCWA/LM QCAO/LM

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: WD6BOR@aol.com  
Subject: [9740] Re: Ground rods, proper installation!  
Message-ID: <960612005923\_133159627@emout19.mail.aol.com>

Bob,

No, don't use EMT or thinwall copper pipe. The standard 1/2" x 8' ground rod should be copper clad steel. They should run about \$8 to 12 at your local home improvement center. Solid copper ground rods are not commonly used because of the added expense. The solid copper clad steel rod is necessary to insure adequate mechanical strength as well as corrosion protection. Galvanized 3/4" steel pipe can be substituted but the cost difference is not worth the shorter service life or higher ground resistance that offers.

For the time and effort you will invest installing the rod, it doesn't make sense to try saving a couple of dollars on the materials cost. I also strongly recommend that you use cast brass or bronze ground clamps and make sure the connection is left exposed for future inspection. Don't think of driving the rod in half the length and cutting it off either. You'll see more than a 70% increase in ground resistance doing that. If you are over a layer of hardpan or rock, you can either drive the rod in at a 45 degree angle or bury it horizontally in a 2 1/2' deep trench. One trick that sometimes works well depending on soil condition is to put a garden hose over the rod and "hydraulically" drive it using running water to displace the soil. A warning note; the hose may not want to come out after doing this.

Your ground is an important safety feature of your station. Don't skimp.

Darrel, WD6BOR  
(electrician, if you couldn't tell)

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: N5EM@aol.com  
Subject: [9801] Re: Hamsticks for 30m: Source

Message-ID: <960612171651\_216000969@emout16.mail.aol.com>

In a message dated 96-06-12 00:04:39 EDT, you write:

>  
>Just in case anyone was having a hard time finding  
>Hamsticks for 30m, Lakeview Company Inc. (pg. 116  
>in June '96 QST) has a bunch of 'em at the moment.  
>Just ordered a 30m and 40m version today. Can't  
>say I'm a happy customer since I don't have the  
>goods yet, but they were pleasant when I placed the  
>order. :-)  
>  
>

I CAN say that I am a happy customer. One thing about these Hamsticks, they are TOUGH. Like the proverbial Timex, they take a lickin' and keep on tickin'.

Ed, N5EM

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: jeffa@ix.netcom.com (Jeff Anderson)  
Subject: [9808] Re: Iamual Morse  
Message-ID: <199606130049.RAA10631@dfw-ix8.ix.netcom.com>

I swear I mailed 3 dits! Apparently even the internet has QSB.

Cheers,

- Jeff, WA6AHL

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: torell@sicom.com (Kent Torell)  
Subject: [9804] Re: Need a BIG Favor  
Message-ID: <v02130501ade4f77cd138@[192.91.202.41]>

>Would some gracious sole be willing to make a photocopy of the December 95  
>and March 96 QRPP for me???

...

>I wasn't sure if this was legal, so I checked with Doug Hendricks and he  
>gave me the OK as long as only single copies are made.

I got the december issue, and bought the bound copies, so you can have the single issue. But, I never got the march issue, so I'm in sort of the same boat...how about two copies, Doug? I can trade my december issue.... (sure hope I'm on the list for the next one)

Kent Torell    torell@sicom.com    602-483-2867 x40  
SICOM    7585 E. Redfield, #202    Scottsdale, AZ    85260  
AB70A    Tmps 1996 Qs=009    States=08    Confirmed=01    DX=00  
AZ CO HI KS OK OR TX WA

From owner-qrp-1@Lehigh.EDU    Wed Jun 12 23:12:39 1996  
From: n5zgt@swcp.com (Brian Mileschosky)  
Subject: [9743] RE: NO Backpacking QRPP...  
Message-ID: <199606120540.XAA15749@kitsune.swcp.com>

Hello Everybody,

Made a mistake...instead of just 1 fire burning in the Gila causing the backpacker with my Scout Troop to be cancelled, the news just reported that there are currently

40 (Yes, FOURTY) fires burning in the Gila wilderness I was planning on backpacking in with my NorCal 49'er. Bummer, huh?

I will be planning more "Backpacking QRPP trips" throughout the summer. Will announce them here.

72,

Brian, N5ZGT

---

|                             |                                       |
|-----------------------------|---------------------------------------|
| Boy Scouts of America       | Amateur Radio - N5ZGT                 |
| JASM -Troop 41              | ARRL            QRP: NorCal# 1700     |
| Albuquerque, N.M.           | Packet: N5ZGT @ KC5IZT.ALBQ.NM.USA.NA |
| O.A. Lodge 66    <-W-W-W-<< | Internet: n5zgt@swcp.com              |

---

From owner-qrp-1@Lehigh.EDU    Wed Jun 12 23:12:39 1996  
From: Mike Cloud <cloudm@mhsgate.meth-mem.org>  
Subject: [9755] RE: NO Backpacking QRPP...  
Message-ID: <7C77BE3101172C16@mhsgate.meth-mem.org>

>Hello Everybody,  
> Well, looks like the backpacking trip into the Gila with my NorCal  
>49'er will not be possible...there is a fire burning there now, and the  
>Gila has been closed. Somebody send New Mexico some rain! LOTS OF IT!

Your message reminded me that I need to apologize to all that attempted to listen for me this past Saturday on 30m. Yes I did make it to the Buffalo river in Tennessee. It poured from the moment we left Memphis es continued to pour after we abandoned the trip at 1:00 pm CST. We had a strange circular front that just kept rotating around this area. Lots of flooding, most places got 4-6 inches of rain. Oh well, have already started looking for another date. I would gladly send you our rain if I could (you too Texas!) 73.72 cul de Mike, KR4IT

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: "Paul R. Valko" <prvalko@Oakland.edu>  
Subject: [9757] Re: OHR 100 Description  
Message-ID: <Pine.OSF.3.91.960612091625.16287A-100000@saturn.acs.oakland.edu>

On Tue, 11 Jun 1996, Stan Skelton wrote:

> I'ts a shame that the OHR 100 doesn't include 80 meters....up here in  
> Canada our 2nd level of license restricts us to 80 & 160 meters...there  
> probably would be a good market for an OHR kit

Second that. I'd buy an 80M OHR-100 but guess we'll have to wait and see what TenTec comes out with.

73! =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: Paul Harden <pharden@aoc.nrao.edu>  
Subject: [9780] Re: Parts Query  
Message-ID: <199606121656.KAA18828@zia.aoc.nrao.edu>

Peter,  
The MCL SB1 is likely a MCL (Mini Circuits Lab) SBL. They are about the size of a mini relay with 8 pins. They are a passive ring-diode

mixer. To be precise, it is .8"L x .4"W x .3"H.

The "large looking" transistors are probably wideband MMIC type amplifiers. Your description sounds like the Avantek series, which may be marketed (or cloned) under other manufacturers. GPD series are the most prevalent. They are good from DC to hundreds of MHz, depending on the model. A pin for the gozinta, one for the gozouta, ground and +V. Any other identification on those? With some part number, I can send you the specs and pin-out.

GL, Paul NA5N

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: Pat Taber <ptaber@logiccraft.com>  
Subject: [9752] Re: QRP on 6m w/dipole from MD FM19, what a night!  
Message-ID: <199606121237.IAA109104@nss2.CC.Lehigh.EDU>

>My ONLY problem with all of this is that I don't particularly like  
>screaming into the mic, greatly preferring CW. Many ops will work  
>crossmode to accommodate you as well (that apparent 18 db gain for Morse  
>over SSB is definitely apparent when you're only running 8 watts and  
>you're the only CW station in the pileup).

>

This is one of the coolest things about the V/UHF "culture." In the weak signal areas its not at all unusual to hear one station using voice and the other using CW. Nobody bats an eye. Many times during contests I've started a contact in one mode and finished it in the other. And if you hear that multiplier but haven't switched modes, no problem -- give a call any way you can and the other op will bust their butt trying to work you.

If your dyed-in-the-wool HFer got a taste of this, all the moaning about subbands might go away. Choice is good.

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: Bob Hightower <ki7mn@dancris.com>  
Subject: [9779] Re: QTTF Fall '96  
Message-ID: <199606121629.JAA01947@dancris.com>

At 04:03 PM 6/12/96 GMT, you wrote:

>Bob, either you or anothe member of this group or a committee  
>of interested parties can do this on 40M this fall in Oct or  
>later. Say a 40-9er night, etc. What you need to do is poll the  
>group as to the number that would have each type of rig

>--

>Chuck Adams (K5FO CP-60) adams@sgi.com

>K5FO Tmps 1996 Qs=024 States=17 Confirmed=07 DX=01 (0.95W)

>AL AZ CA CO FL IL IN MI OK OR SD TN TX UT WA WI WY

>

>

OK. Looks like another mini-test may be in the offing. Anyone interested in doing something like this? If so, I'll see if I (we) can get something set up that won't rile too many feathers. Just thought it would be interesting to do. In our club of about 80 or so members, the 'core' of 5 or 6 consists of at least 4 HW-9's, perhaps 5 or so 40A's and so on. Might be fun. 73,

Bob KI7MN NorCal 1221 ARCI 8918 Qrp-1 271 CQC 274 ARRL (Not in any order of importance!)

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: Paul Harden <pharden@aoc.nrao.edu>

Subject: [9785] Re: QTTF Fall '96

Message-ID: <199606121724.LAA19969@zia.aoc.nrao.edu>

Any bonus points for an original A/N ARC-5? (WW-II era vacuum tube transmitter about the size of a loaf of bread, for you newer fellas).

Paul NA5N

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: Bob Hightower <ki7mn@dancris.com>

Subject: [9788] Re: QTTF Fall '96

Message-ID: <199606121754.KAA00532@dancris.com>

>Date: Wed, 12 Jun 1996 10:49:41

>To: Paul Harden <pharden@aoc.nrao.edu>

>From: Bob Hightower <ki7mn@dancris.com>

>Subject: Re: QTTF Fall '96

>

>At 11:24 AM 6/12/96 -0600, you wrote:

>>Any bonus points for an original A/N ARC-5? (WW-II era vacuum tube  
>>transmitter about the size of a loaf of bread, for you newer fellas).

>>

>>Paul NA5N

>>

>Why not? Might have to come up with a sliding scale based on the year of manufacture of the rig. Sure would break up some ties.



>  
73,  
Bob KI7MN NorCal 1221 ARCI 8918 Qrp-1 271 CQC 274 ARRL (Not in any  
order of importance!)

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: Bob Hightower <ki7mn@dancris.com>  
Subject: [9809] Re: QTTF Fall '96  
Message-ID: <199606130052.RAA06703@dancris.com>

At 04:33 PM 6/12/96 PST, you wrote:

>  
>Themes should be voluntary. I some areas there are no clubs/groups.  
>At least I know of none here in my area near Pasadena, CA. During  
>the spring QRP to the Field I did it by myself and I am not aware of  
>having worked any "local clubs" among the 100 or so QSOs I did  
>manage to make. I guess we're a bunch of isolationists here, but I  
>have only returned to QRP in the last 9 months after being "lost" for  
>over 30 years. Maybe I have not made the right connections yet?  
>

There's no intention to leave anyone out, even groups of one. Maybe we ought  
to incorporate some type of weighting system for the scoring so that large  
groups don't have the advantage. Number of QSO's per rig, or some such  
thing. Like the Spartan  
Sprint. Keep the ideas/suggestions coming, we'll come up with something  
equitable and fun.  
73,

Bob NorCal #1228, ARCI #8918, Qrp-1 #271, CQC 274

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: Dave.Ackrill@WESTWOOD45.powergen.co.uk  
Subject: [9781] Re: The Painter  
Message-ID: <960612170834Z\*/G=Dave/S=Ackrill/O=WESTWOOD45/PRMD=POWERGEN/  
ADMD=CWMAIL/C=GB/@MHS>

Hi all,

Of course the following clue:-

.. .- -- ..- .- .-.. -- --- .-. ....

Reads "Iamual Morse"

But what's a "dit" between friends - HI

Anyone know why some messages on this list get repeated several times?  
(And I don't mean the ones where the original message is just copied  
verbatim before the additional information!)

Thanks for the info. on Altoids. No, I've never seen any such sweet  
(candy) sold over here. Nearest I can remember was Strepsils, a "cure"  
for sore throats that came in a tin with a push on lid. Can't find  
them in a tin now, all seem to have gone over to plastic or cardboard  
packets. Saw some round metal tins containing travel sweets yesterday,  
but I guess mounting large items like S-meters and S0259s might distort  
the metal. But then, who on the other end of the QSO would know HI.

One more exam this year, then I can play QRP a bit more. Will have a  
go at 30M (one of the only HF bands that I tend to like much) so hope  
to hear you all on - Try between 10.130 and 10.140 MHz, it's quieter  
over this way (less RTTY etc.,) and we have novice licence holders  
that can only use that part of the band. Since they are only allowed  
a max. of 3W RF out then they are QRP all the time! Calls to listen  
for begin as follows:-

2E0 (that's Two Echo Zero) = England  
2W0 = Wales  
2D0 = Isle of Man  
2I0 = Northern Ireland  
2J0 = Jersey  
2M0 = Scotland  
2U0 = Guernsey

Anyone out there interested in VHF QRP? I'm on 6M and in the past  
have worked over to the states on low power 6M CW.

72 de Dave (G0DJA)

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: Stan Skelton <sskelton@c1n.etc.bc.ca>  
Subject: [9787] Re: The Painter  
Message-ID: <Pine.3.89.9606121050.A240-01000000@sparky>

No I don't know why they get repeated, but I do not why Samuel Morse wasn't Samuel Morse, cause some systems refuse to recognize a line starting with a . (dit) and automatically erase the first . (dit). This is an old programmers function and no longer used (mostly) but still recognized by some systems...there are 2 possible "fixes", either type one extra . (dit) or start the line with some other character like an X. TtFn....Stan T.M. VE7 SKT QRP-L #34

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: Jim Eshleman <lujce@hooch.CC.Lehigh.EDU>  
Subject: [9790] Re: The Painter  
Message-ID: <96Jun12.141247-0400edt.65656-18193+69@hooch.CC.Lehigh.EDU>

> Anyone know why some messages on this list get repeated several times?  
> (And I don't mean the ones where the original message is just copied  
> verbatim before the additional information!)

Dave,

There is some protection against this sort of thing, so it's unlikely duplicates are being generated by the list server, although I've been proven wrong before :-). It's possible for any of the mailers in the path from the original author to your mailbox to generate duplicates. You need to look at the header lines (Message-Id: and Received: are the most important clues) of both the original and the suspected duplicate to determine if they are indeed machine generated duplicates, or if perhaps the original author sent the message twice. Also note that many people may send to you and cc: the list (as I've done with this reply) or send to the list and cc: another list you are subscribed to, and you'll end up with two copies.

I haven't noticed any duplicates, but if you'll forward to me (with original headers intact) any suspected duplicates, I'd be more than happy to check them out.

73  
Jim N3VXI

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: adams@chuck.dallas.sgi.com (chuck adams)  
Subject: [9777] Re: The Threat to QRP  
Message-ID: <199606121537.PAA00882@chuck.dallas.sgi.com>

Max et.al.,

Hey, I've been listening on 30M for two weeks as soon as I get home and aperiodically until I go to bed late.

This is to show you that all operating is not necessarily successful. In two weeks I have worked one station. One. Maybe two but I'd have to look at the log. I know that the last week has been bad at 1W.

I have heard DL, UM, VK, ZL, and a few more, but there were 339 or so and I'm sure at 100-200W there were significantly stronger than I would be on their end and they probably had a pileup, even if it could have been a minature one, going.

I've gotten email from others on the coasts that have been working DX at a good rate, but it is dry here in TX. Maybe the ground conductivity has gone down the tubes. :-) DId we say we needed rain?

Working on an S&S TAC-1 for 40M that I bought at Dayton. It is indeed a beautiful kit. Film at 11 when done. Why another 40M kit? Well this one will be the first one that I can get up to 7.122MHz to talk to the Novice/Tech+'s for the next foxhunt season. Speaking of, I got email from someone that hasn't received a QSL card from one of the fox's. Said fox will be further disqualified from future events if said fox doesn't get going on same. So if you are thinking of being a fox in the future (anyone) then you gotta QSL when requested to do so. Seems only fair. This will start yet another thread. :-) Also another batch of certificates out the door for those that haven't gotten theirs yet.

Hopefully conditions will improve on 30M soon. Guess I'll have to go back to 40M and hope the QRN has died off. Someone must be getting rain. :-)

dit dit es cul

--

Chuck Adams (K5FO CP-60) adams@sgi.com

K5FO TMPS 1996 Qs=024 States=17 Confirmed=07 DX=01 (0.95W)

AL AZ CA CO FL IL IN MI OK OR SD TN TX UT WA WI WY

From owner-qrp-l@Lehigh.EDU Wed Jun 12 23:12:39 1996

From: "John W. Jomp" <johnj119@mo.net>

Subject: [9745] Re: Trivia Question  
Message-ID: <31BE8C69.1991@mo.net>

Jeff Anderson wrote:

>  
> I was in New York City this last weekend and spent part of a day  
> touring the Metropolitan Museum of Art. While there, I stumbled across  
> a painting in the American wing which, much to my surprise, I  
> discovered was painted by someone well known to all amateurs in the  
> U.S. (and perhaps world-wide), and, given a current thread on this  
> list, well loved by many QRP'ers.  
>  
> The painting was of the artist's daughter (an excellent painting, I  
> might add), and an accompanying notice mentioned that this artist's  
> fame as a painter was eclipsed by his fame in the realm of  
> communications. Who was he?  
>  
> \*\*\*\*\*  
>  
> Answer:  
>  
> .. .- -- ..- .- .-.. -- --- .- . . .

Why is this a surprise ? Doesn't everyone know that he was a well known  
artist ?

73 de N0UIQ

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: "Paul R. Valko" <prvalko@Oakland.edu>  
Subject: [9758] Re: Trivia Question  
Message-ID: <Pine.OSF.3.91.960612092911.16287C-100000@saturn.acs.oakland.edu>

On Wed, 12 Jun 1996, John W. Jomp wrote:

> > The painting was of the artist's daughter (an excellent painting, I  
> > might add), and an accompanying notice mentioned that this artist's  
> > fame as a painter was eclipsed by his fame in the realm of  
> > communications. Who was he?  
> > Answer:  
> > .. .- -- ..- .- .-.. -- --- .- . . .  
>  
> Why is this a surprise ? Doesn't everyone know that he was a well known  
> artist ?

I didn't! Is he any relation to Samuel Morse?  
73! =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: "Dana H. Myers" <myers@bigboy.West.Sun.COM>  
Subject: [9771] Re: Trivia Question  
Message-ID: <Roam.3.0.834592158.13295.myers@bigboy>

> Jeff Anderson wrote:

[...]

> > The painting was of the artist's daughter (an excellent painting, I  
> > might add), and an accompanying notice mentioned that this artist's  
> > fame as a painter was eclipsed by his fame in the realm of  
> > communications. Who was he?  
> >  
> > \*\*\*\*\*  
> >  
> > Answer:  
> >  
> > .. .- -- .- .- .-.. -- --- .-. ....  
>  
> Why is this a surprise ? Doesn't everyone know that he was a well known  
> artist ?

I suppose most folks are unaware that he's responsible for creating the  
area near Monterey, CA, where the 17 Mile Drive is located; there's even  
a road named after him there.

Dana  
Dana.Myers@West.Sun.Com  
KK6JQ

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: mike <mike@g0ifk.u-net.com>  
Subject: [9794] Re: Trivia Question  
Message-ID: <31BF1665.4ED5@g0ifk.u-net.com>

Paul R. Valko wrote:

>

> On Wed, 12 Jun 1996, John W. Jomp wrote:  
 > > > The painting was of the artist's daughter (an excellent painting, I  
 > > > might add), and an accompanying notice mentioned that this artist's  
 > > > fame as a painter was eclipsed by his fame in the realm of  
 > > > communications. Who was he?  
 > > > Answer:  
 > > > .. .- -- ... - .- ... -- --- .- . ... .  
 > >  
 > > Why is this a surprise ? Doesn't everyone know that he was a well known  
 > > artist ?  
 >  
 > I didn't! Is he any relation to Samual Morse?  
 > 73! =paul= wb8zjl0lder Brother I think, got together with that French guy Bic  
 to make a keyer.

72 Mike G0IFK

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
 From: "Robert J. Gobrick" <rgobrick@nfld.com>  
 Subject: [9807] Re: Trivia Question  
 Message-ID: <2.2.32.19960611232907.00aa8124@public.compusult.nf.ca>

Geez - all along I thought that was the great painter "Iamual Morse"

Cheers Bob V01DRB/WA6ERB

At 09:31 6/12/96 -0400, you wrote:

>  
 >On Wed, 12 Jun 1996, John W. Jomp wrote:  
 >> > The painting was of the artist's daughter (an excellent painting, I  
 >> > might add), and an accompanying notice mentioned that this artist's  
 >> > fame as a painter was eclipsed by his fame in the realm of  
 >> > communications. Who was he?  
 >> > Answer:  
 >> > .. .- -- ... - .- ... -- --- .- . ... .  
 >>  
 >> Why is this a surprise ? Doesn't everyone know that he was a well known  
 >> artist ?  
 >  
 >I didn't! Is he any relation to Samual Morse?  
 >73! =paul= wb8zjl  
 >  
 >  
 >

```
-----  
| Bob Gobrick - V01DRB/WA6ERB/VE2DRB - Newfoundland, Canada |  
| QRPer Galore - ARCI, GQRP, NORCAL, NEQRP, COQRP, MIQRP, NWQRP |  
| Internet:      rgobrick@nfld.com |  
|                bgobrick@nlnet.nf.ca |  
| Compuserve:   70466.1405@compuserve.com |  
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From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: "Paul R. Valko" <prvalko@Oakland.edu>  
Subject: [9759] Re: VHF openings - last night -- sporadic E  
Message-ID: <Pine.OSF.3.91.960612093228.16287D-100000@saturn.acs.oakland.edu>

Yes! There was a great "E" opening all along the East coast last night.  
I worked a station VY2/W1AIM on Prince Edward Island who had such a HUGE  
pile-up going, he was working CALL AREAS!

73 =paul= wb8zjl

From owner-qrp-1@Lehigh.EDU Wed Jun 12 23:12:39 1996  
From: Kevin Muenzler <muenzlerk@uthscsa.edu>  
Subject: [9766] RE: VHF openings - last night -- sporadic E  
Message-ID: <01BB5841.F70F1560@muenzlerk.uthscsa.edu>

It was pretty good down here too! I had some nice QSO's with  
chapps in Houston and New Orleans (or Norlans) from near  
San Antonio.

Kevin, WB5RUE